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... Host-based intrusion detection systems can be further divided into two categories: signature-based schemes (ie, misuse detection) and anomaly detection. ...

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... In fact, it would have to increase at a ... stated in the introduction, approaches to intrusion detection can be divided into two major groups, signature-based and ...

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C Krügel, T Toth, E Kirda - 2002 - ACM Press New York, NY, USA

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... There exist several serious problems with the USC of passive protocol analysis as an event-generation source for signature-analysis intrusion detection systems ...

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... rating surpasses a pre-defined threshold, a report ... STAT, which is a real-time intrusion detection tool ... identified, the key actions, called signature actions are ...

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A Sundaram - Crossroads, 1996 - portal.acm.org

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[Data Mining Approaches for Intrusion Detection](#) - [PDF] ► [carleton.ca](#)

W Lee, SJ Stolfo, COLUMBIA UNIV NEW YORK DEPT OF ... - 2000 - usenix.org

... and match the sequence of "signature actions" (eg ... according to a user-defined threshold on the ... of using data mining approaches in intrusion detection is that it ...

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R Bace, P Mell, National Institute of Standards ... - 2001 - gd.tuwien.ac.at

... can leverage a single signature to detect ... NIST Special Publication on Intrusion Detection Systems ... techniques used in anomaly detection include: • Threshold ...

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W Lee, SJ Stolfo, COLUMBIA UNIV NEW YORK DEPT OF ... - 2000 - usenix.org

... the base classifiers; each attribute value in a ... rules with high support and confidence, new (unseen ... continuous part of an intrusion detection system because the ...

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H Debar, A Wespi - LECTURE NOTES IN COMPUTER SCIENCE, 2001 - Springer

... positives but may also increase the number ... which results in reducing the confidence value. ... on the scalability of the entire intrusion-detection system, on the ...

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[A neural network component for an intrusion detection system](#)

H Debar, M Becker, D Siboni - Research in Security and Privacy, 1992. Proceedings., 1992 ... - ieeexplore.ieee.org

... sigmoid function to obtain an output value, called activation ... detecting viruses on a computer system [71 ... of this technique in the field of intrusion detection. ...

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DE Denning - Software Engineering, IEEE Transactions on, 1987 - ieeexplore.ieee.org

... pose intrusion-detection expert system, which we have called ... no knowledge of the target system's security mechanisms or ... mechanism may have some value, it would ...

Cited by 1509 - Related articles - Web Search - Library Search - All 54 versions

[Intrusion Detection Techniques for Mobile Wireless Networks](#) - [PDF] ► gatech.edu

Y Zhang, W Lee, YA Huang - Wireless Networks, 2003 - Springer

... and applications, and the confidence (or certainty) in the ... Multi-layer integrated intrusion detection and response ... and host- based IDSs analyze system call data ...

Cited by 200 - Related articles - Web Search - BL Direct - All 19 versions

[PDF] ► [DIDS \(Distributed Intrusion Detection System\)-Motivation, Architecture, and an Early Prototype](#)

SR Snapp, J Brentano, GV Dias, TL Goan, LT ... - Proceedings of the 14th National Computer Security ..., 1991 - wwwbruegge.in.tum.de

... This Rule Value (RV) represents our confidence that the rule ... 8. Conclusion Our Distributed Intrusion Detection System (DIDS) is being developed to ...

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[Bayesian event classification for intrusion detection](#)

C Kruegel, D Mutz, W Robertson, F Valeur - Computer Security Applications Conference, 2003. Proceedings ..., 2003 - ieeexplore.ieee.org

... and the potential lack of confidence information in ... the threshold in a traditional system and the ... to tune the sensitivity of the intrusion detection system. ...

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The architecture of a network level intrusion detection system

R Heady, G Luger, A Maccabe, M Servilla - 1990 - [osti.gov](#)

... of this project is directed toward intrusion detection at the ... Since detecting an intrusion is not dependent on the ... and the attention of the system is focused ...

[Cited by 189](#) - Related articles - Web Search - Library Search

[PDF] ► Evolving Fuzzy Classifiers for Intrusion Detection

J Gomez, D Dasgupta - Proceedings of the 2002 IEEE Workshop on Information ..., 2002 - [issi.cs.memphis.edu](#)

... This allowed to us increase the speed of ... shows how the fuzzy rule confidence value affects the ... of a Network-level Intrusion Detection System, Technical report ...

[Cited by 60](#) - Related articles - View as HTML - Web Search - All 6 versions

[PDF] ► Model Generation for an Intrusion Detection System Using Genetic Algorithms

A Chittur, NY Ossining - High School Honors Thesis, 2002 - [docs.ksu.edu.sa](#)

... the population's mean fitness value in both ... method of certainty of whether a given connection ... on an existing Intrusion Detection System for further analysis ...

[Cited by 23](#) - Related articles - View as HTML - Web Search - All 8 versions

A framework for constructing features and models for intrusion detection systems -

[\[PS\]](#) ► [gatech.edu](#)

W Lee, SJ Stolfo - ACM Transactions on Information and System Security (TISSEC), 2000 - [portal.acm.org](#)

... as a means to combine multiple intrusion detection models ... ACM Transactions on Information and System Security, Vol ... and c support X Y support X is the confidence ...

[Cited by 498](#) - Related articles - Web Search - Library Search - All 42 versions

Inside the Slammer Worm

D Moore, V Paxson, S Savage, C Shannon, S ... - IEEE SECURITY & PRIVACY, 2003 - [doi.ieeecomputersociety.org](#)

... random-number generator for each salt value to have confidence of good ... Because Slammer's behavior was highly anomalous, intrusion detection system logs and ...

[Cited by 406](#) - Related articles - Web Search - BL Direct - All 7 versions

A data mining framework for building intrusion detection models -

[\[PDF\]](#) ► [esociajion-aecsi.es](#)
W Lee, SJ Stolfo, KW Mok - Security and Privacy, 1999. Proceedings of the 1999 IEEE ..., 1999 - [ieeexplore.ieee.org](#)

... confidence. ... Each participating site was required to build intrusion detection models or tweak their existing system parameters using the training data ...

[Cited by 627](#) - Related articles - Web Search - BL Direct - All 66 versions

[BOOK] Service specific anomaly detection for network intrusion detection -

[\[PS\]](#) ► [gatech.edu](#)
C Krügel, T Toth, E Kirda - 2002 - ACM Press New York, NY, USA

... test should yield a high confidence in the ... setting the threshold to a value that pro ... open- source, signature based network intrusion detection system that has ...

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Haystack: an intrusion detection system

SE Smaha, TAS Inc, TX Austin - Aerospace Computer Security Applications Conference, 1988., ..., 1988 - [ieeexplore.ieee.org](#)

... by 2000% and its absolute value is also ... the overall impact of observations, including confidence levels ... How do we test an intrusion detection system and measure ...

[Cited by 190](#) - Related articles - Web Search - All 2 versions

A high-performance network intrusion detection system -

[\[PDF\]](#) ► [sunysb.edu](#)
R Sekar, Y Guang, S Verma, T Sharbhag - Proceedings of the 6th ACM conference on Computer and ..., 1999 - [portal.acm.org](#)

... to attempt to disable the intrusion detection system by any ... mentioned above can crash the intrusion de- tection ... flexible and ex- pressive type system that can ...

Cited by 89 - Related articles - Web Search - All 16 versions

Log Correlation for Intrusion Detection: A Proof of Concept - [PDF] ► acsu-admin.org
C Abad, J Taylor, C Sengul, W Yurcik, Y Zhou, K ... - Proceedings of the 19th Annual Computer Security ..., 2003 - doi.ieeecomputersociety.org

... [15]; they do not use the confidence level when ... as abnormal as opposed to the original 6.5 value. ... in- creases the accuracy of the intrusion detection system. ...

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R Durst, T Champion, B Witten, E Miller, L ... - Communications of the ACM, 1999 - portal.acm.org
... to quickly produce high-confidence performance specifications. ... University: Fraud and Intrusion Detection for Financial Information Systems Using Meta ...

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K Ilgun, RA Kemmerer, PA Porras - IEEE TRANSACTIONS ON SOFTWARE ENGINEERING, 1995 - doi.ieeecs.org
... Intrusion detection systems should be able to anticipate an impending ... with some measure of confidence and either forewarn the system administrator or ...

Cited by 414 - Related articles - Web Search - BL Direct - All 16 versions

[PDF] ► **Intrusion Detection with Neural Networks**
J Ryan, MJ Lin, R Miikkulainen - ADVANCES IN NEURAL INFORMATION PROCESSING SYSTEMS, 1998 - docs.ksu.edu.sa
... activated, indicating high certainty of identification ... the granularity of the value intervals affect ... neural network component for an intrusion detection system. ...

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